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1 [Computer programs for detecting and correcting spelling errors](#)

James L. Peterson

 December 1980 **Communications of the ACM**, Volume 23 Issue 12

Full text available: pdf(1.25 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

With the increase in word and text processing computer systems, programs which check and correct spelling will become more and more common. Peterson investigates the basic structure of several such existing programs and their approaches to solving the problems which arise when this type of program is created. The basic framework and background necessary to write a spelling checker or corrector are provided.

Keywords: spelling, spelling correction, spelling dictionary, spelling programs

2 [Spelling correction in user interfaces](#)

Ivor Durham, David A. Lamb, James B. Saxe

 October 1983 **Communications of the ACM**, Volume 26 Issue 10

Full text available: pdf(1.12 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The feasibility of providing a spelling corrector as a part of interactive user interfaces is demonstrated. The issues involved in using spelling correction in a user interface are examined, and a simple correction algorithm is described. The results of an experiment in which the corrector is incorporated into a heavily used interactive program are described. More than one quarter of the errors made by users during the experiment were corrected using the simple mechanisms presented ...

Keywords: interactive programs, spelling, spelling correction, typographical errors, user interfaces

3 [Spelling correction for the telecommunications network for the deaf](#)

Karen Kukich

 May 1992 **Communications of the ACM**, Volume 35 Issue 5

Full text available: pdf(7.82 MB)

 Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

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Result # 1 Relevance: ★★★★★

Spelling Correction Function Enhancement

1984-02-01

IPCOM000041667D

English

Described is a method for enhancing the operation of a spelling correction function by searching the dictionary based on grouping root words having the same set of leading records. At dictionary build time the second and third letter content of ...

Result # 2 Relevance: ★★★★★

Filter for Spelling Correction Function

1984-03-01

IPCOM000042095D

English

This article describes a method for increasing throughput in a spelling correction function by using a cross-match filter between a limited number of characters of the input word and dictionary. The filter examines the second, third, and fourth characters of both ...

Result # 3 Relevance: ★★★★★

Unfold Skipping for Spelling Correction Function

1984-03-01

IPCOM000042097D

English

This article describes a method for increasing the efficiency of a spelling correction function by using a filter to eliminate the need to "unfold" sections of logical records. The variable field dictionary structure requires unfolding of each nibble (byte) of a ...

Result # 4 Relevance: ★★★★★

Flexible Supplemental Dictionary for a Spelling Correction Function

1983-01-01

IPCOM000044980D

English

This publication describes a technique for providing a flexible supplemental dictionary for a spelling correction system by implementing the supplemental dictionary as a user created document that can be viewed and edited as required. "CREATE DOCUMENT OF SUPPLEMENTAL ...

Result # 5 Relevance: ★★★★★

Spelling Correction with Keyboard, User, and Language Models

1993-04-01

IPCOM000104425D

English

Disclosed is a system for the automatic correction of spelling errors in typed text. This system has the following desirable characteristics: It does not assume that words in its input text which are not in its language's lexicon are correctly spelled. For ...

Result # 6 Relevance: ★★★★★

Interlisp Reference Manual

1983-10-01

IPCOM000128894D

English

Interlisp is a programming system. A programming system consists of a programming language, a large number of predefined programs (or functions, to use the Lisp terminology) that can be called either as direct user commands or as subroutines in user programs, and an environment for ...

Result # 7 Relevance: ★★★★★

Processing Text Files Using a Dictionary

1981-01-01

IPCOM000051472D

English

This article describes a spelling correction technique which can be use to check the cor
limited number of terms, which are used in a particular set of documents.

Result # 8 Relevance: 

Fast-Path Spelling Correction Dialog

1993-02-01

IPCOM000104016D

English

A technique is disclosed that would provide users with a fastpath means to quickly cor
errors without having to scroll through the document to locate and correct the errors in
Users would invoke the spell-check function in the typical manner and the ...

Result # 9 Relevance: 

Interactive Spelling Correction Aid for a Text Processing System

1983-01-01

IPCOM000044981D

English

The Spelling Aid is a feature which allows the operator to request a list of potential spe
selected word. Spelling Aid is invoked by pressing the AID key while in the Prompted S
The system will use the found misspelled word to locate and sequence ...

Result # 10 Relevance: 

**MTS The Michigan Terminal System Volume 3: System Subroutine De
April 1981**

1983-02-01

IPCOM000128750D

English

co the Computing Center. The MTS volumes now in print are listed below. The date ind
recent edition of each volume; however, since volumes are updated by means of CCM
should check the Memo list, copy the files - CCMEMOS or *CCPUBLICATIONS, or ...

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Multiple Memory Error Correction

1981-11-01 IPCOM000053728D

English

This scheme will correct multi-bit errors so that retry will produce usable data.

Result # 2 Relevance:

Error Detection of BCH Codes

1976-08-01 IPCOM000086324D

English

Efficient decoding schemes for 3-error correcting hexadecimal (BCH) errors in a receiver. For example, 4 errors in a code word sometimes are recognized by the decoder as 2 errors.

Result # 3 Relevance:

Variable Correction Span Error Correction Guide for Improved Throughput and Data Integrity

1990-04-01 IPCOM000102975D

English

Described is a process for simultaneously improving data integrity and throughput of a storage device (DASD) by incorporating into the data recovery procedure (DRP) an error correction code (ECC) that utilizes a variable correction span.

Result # 4 Relevance:

Error Correction Using Multiple Retrys

1986-08-01 IPCOM000061951D

English

This procedure will reduce the time it takes to correct errors when multiple words are involved in a mass transfer of data.

Result # 5 Relevance:

An Enhanced Retry for Multi-Level Error Correcting Codes in DASD

1988-05-01 IPCOM000059134D

English

A method is described for performing error retries in a DASD using multi-level error correction codes.

Result # 6 Relevance:

Paired Error Correcting Scheme

1970-12-01 IPCOM000073445D

English

Single errors or a class of paired errors can be corrected using a class of specially constructed error correcting majority decodable codes. This class of codes has (m-1) m information checkbits where m is an integer. For a word of n information bits, ...

Result # 7 Relevance:

Method for Improving the Effectiveness of Error Recovery

1992-03-01 IPCOM000107639D

English

A method is proposed which improves the complement/recomplement procedure's coverage of intermittent or soft errors.

Result # 8 Relevance: **Correcting Detected Triple Bit Errors**

1986-05-01

IPCOM000061135D

English

A machine employing an invert retry scheme to bypass double bit errors by correct eitl the bit, may also use this mechanism to increase system integrity and prevent machin caused by detectable triple bit errors.

Result # 9 Relevance: **Error Correcting Code for Hybrid Errors**

1971-09-01

IPCOM000075484D

English

The double-error correcting, triple-error detecting (DEC-TED) code can be adapted for hybrid-error environment. The code is capable of correcting random errors and solid-b mixed environment. The correction is obtained using the same decoder in one ...

Result # 10 Relevance: **Technique for Improved Recovery From Double Hard Errors Plus a Sin Error**

1985-09-01

IPCOM000064840D

English

All double errors due to two stuck faults or one stuck fault and one soft fault are recov means of complement/recomplement (C/RC). C/RC fails against two stuck faults plus a when one of the stuck faults is hidden (stuck in the same sense as correct ...

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Result # 1 Relevance:

Scope Sensitive Programming Language Variable Spell Checker

1992-02-01

IPCOM000107477D

English

Programmers are constantly creating new variables within their code. Often variables are created by programmers. Prior art provides spell checkers that can compare a set of words to a dictionary. Unfortunately, a programmer's choice of variables can occur ...

Result # 2 Relevance:

Addword Through Correction of Recognition Errors

1992-06-01

IPCOM000108537D

English

Disclosed is a method for adding new words to a speech recognition system in a way that is fast and efficient for the user - through the correction of recognition errors during dictation

Result # 3 Relevance:

Treating Low Frequency Dictionary Words As Misspellings to Increase Accuracy

1989-04-01

IPCOM000034832D

English

Disclosed is an improvement to spelling error detection and correction programs which use rare words occurring in the spelling dictionary in a manner similar to misspelled words. the use of very large dictionaries without losing the ability to detect ...

Result # 4 Relevance:

Learning Method for Correction of Affix-Related Errors

1989-09-01

IPCOM000036066D

English

This article describes a new learning method applied to a process for correcting affix-related errors in Kana-to-Kanji Conversion (KKC). With the new method, the KKC system learns both about a compound word consisting of a content word and an affix.

Result # 5 Relevance:

Error Correction Using Multiple Retrys

1986-08-01

IPCOM000061951D

English

This procedure will reduce the time it takes to correct errors when multiple words are involved in a mass transfer of data.

Result # 6 Relevance:

Writable Prefix Addenda Memory For Enhanced Spelling Verification

1979-10-01

IPCOM000067792D

English

A Writable Prefix Addenda memory (WPA) enhances vocabulary coverage characteristic of agglutinating languages, such as German and Dutch. The WPA is used in conjunction with a Stem Processing function wherein a word is searched for a verifiable ...

Result # 7 Relevance:

Method for Associating Differing Rules with Blocks of Differing Language

2005-08-22

IPCOM000127313D

English

It is common to find documents with different blocks of text that use different languages. For example, one may have a user manual that is aimed to cater to an English, Spanish, or German audience. In the current art, word processing programs typically do not have .

Result # 8 Relevance: 

Paraphraser

1990-02-01

IPCOM000099816D

English

Disclosed is a scheme to generate paraphrases for a given sentence, that is, alternatives which are grammatical and which preserve the general meaning of the original sentence.

Result # 9 Relevance: 

Method for Improving Spelling-To-Sound Rules for Speech Synthesis Algorithmically Deduced Etymologies

1984-12-01

IPCOM000044297D

English

In many languages there are words -- particularly proper names -- which, because they are not completely naturalized, disobey normal spelling-to-sound rules, thereby causing errors in speech synthesis. This is especially so for English because of the history of the language, ...

Result # 10 Relevance: 

Sense Checker

2001-04-13

IPCOM000013368D

English

This proposal concerns systems which process text in spoken or written form, such as speech processors or voice recognition software. Typically, the text typed into word processors or voice recognition software is checked for correctness with a spell checker. In ...

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